

Claims

1. A data exchange system:  
with a mobile component (1), and  
5 with a control device (2, 4), which is designed in such  
a way that it receives control commands from the mobile  
component (1) to control at least one consumer (5),  
converts said control commands into corresponding  
control signals and transmits said control signals via  
10 a data transmission path (9) to the consumer (5) which  
is to be controlled,  
characterized in that  
the mobile component (1) has an Internet interface to  
transmit control commands to the control device (2, 4),  
15 the control device (2, 4) is designed in such a way  
that it can evaluate control commands transmitted by  
the mobile component (1) via the Internet interface and  
can convert said control commands into a corresponding  
control of the consumers (5) connected to the data  
20 transmission path (9), and  
in that the mobile component (1) has identification  
means (10) to identify the user of the mobile component  
(1), and the mobile component (1) and/or the control  
device (2, 4) are designed in such a way that the  
25 identification information supplied by the  
identification means (10) is evaluated in order to  
release access to the consumers (5) connected to the  
data transmission path (9) and/or individual functions  
of said consumers.  
30
2. The data exchange system as claimed in claim 1,  
characterized in that  
the mobile component (1) is a mobile telephone.
- 35 3. The data exchange system as claimed in claim 1 or 2,  
characterized in that

the control device comprises an interface device (2) as a communications interface between the mobile component (1) and a communications network (3).

5

4. The data exchange system as claimed in claim 3, characterized in that

the control device (2, 4) is controlled by the mobile component (1) in a different frequency range than that 10 used for the transmission of communications information between the mobile component (1) and the interface device (2).

15 5. The data exchange system as claimed in one of the preceding claims,

characterized in that

the control device (2, 4), the data transmission path (9) and the consumers (5) which are to be controlled are accommodated in one housing unit.

20

6. The data exchange system as claimed in one of claims 1-5,

characterized in that

the data transmission path (9) is designed in the form 25 of a bus line, via which a plurality of consumers (5) can be controlled with the aid of the mobile component (1) and the control device (2, 4).

30 7. The data exchange system as claimed in one of the preceding claims,

characterized in that

the control device (2, 4) is designed in such a way 35 that a status query relating to the consumers (5) connected to the data transmission path (9) can be made via the control device (2, 4) with the aid of the mobile component (1).

TOP SECRET - SECURITY INFORMATION

8. The data exchange system as claimed in one of the preceding claims,  
characterized in that

the consumers (5) connected to the data transmission path (9) can be controlled via a hierarchical menu structure which can be presented on a display unit (8) 5 of the mobile component (1) when the control device (2, 4) is controlled by the mobile component (1).

9. The data exchange system as claimed in one of the preceding claims,  
10 characterized in that  
the mobile component (1) and the control device (2, 4) are designed in such a way that the control commands are transmitted via the Internet interface of the mobile component in accordance with the WAP protocol.

TOOGFOT-36508660